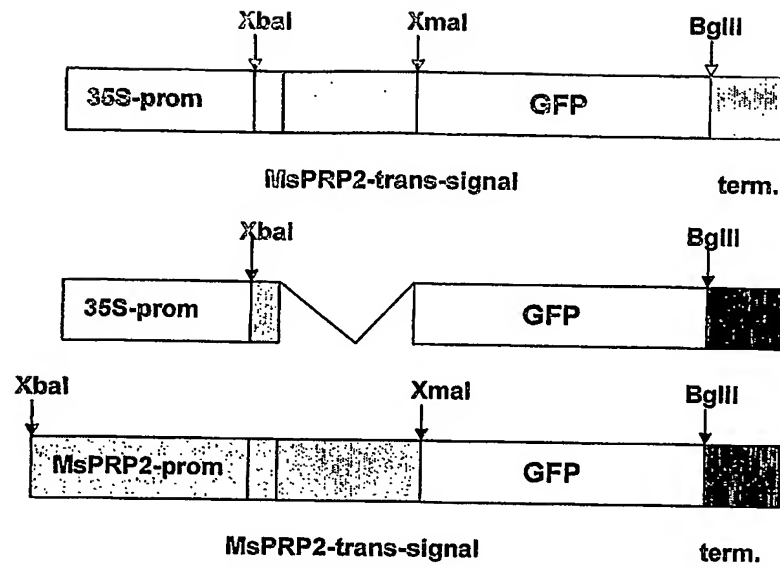


FIG. 1



## FIG. 2

```
1   ttttataaat atttaagctt gataataatt ttgcgatcta tatataagcc actaccaatt
61  taaaattata tatatatata tatatatata tatatatata ataattttta ttatatattat
121 tacgttgatg gtaaaaaaat aaatataatt tgttaccatt taaaagtcac aaatatagta
181 caatccaacc ctttgagagg ttaatgtgtg tgcggatttt ctagataaac aagggtgccat
241 tcacgattct tcttggtgca gcttggagaa ccctatcctg ggcttggaag atttacttct
301 tgttgatgct tctagagtag agctccttaa ggctgtagtc tagttttttt tttcatcctt
361 cctaccaaaa aaaaaaaagt cataaatata gtttatacat ataactttta taaaaataaa
421 aaaattttcat ccctaaaaac atagtagaaa tttcataaaa aaaatattgt ttataattta
481 catgccgtta cggtaaaaaa tggataaatt gggtagggag tactagtaat taataagggt
541 cattgggtta aaaaaactaa aaataatttc tctcctgatt tatatgaaat gacatttttt
601 tggaacatga agggatttga tttttaccac cttttacacc tttcaaagcc attcaaggat
661 gaatatagat ttttgggcca tcaaacacaa gaatcattac gataacatgc tttggaacac
721 acacatgctt aaattaatgg ttggagtatc aaatttttaa atattgttgt caatacatac
781 cccgtcaatc ttcttttttt taccacaata acattgaaat gttgcttctt tcgttaagca
841 taaaaacatc aaagtctagc aaaatgttgt ttttgcgatg acacatttca tatagtttta
901 aggatgcatg attcgattac aaaaacaaaa tactaataat tctagcacia agtttaaagc
961 aagattataa agcttcatag catgtggata ttcattttag aatatagatt agattgcccc
1021 tttcatcacg ggtctaacag caccacttgt cactacatgt caaaaatgtc ctctagtaca
1081 gcaccgcttt ttacttgatt ccccttgtcc atgcatgaaa aaaatcaaaa caatatttgg
1141 acacacaaac ttgccccac tttccttttt ctttctgccc tagtttggtt gagactcata
1201 ttgatcaaat ttggctatga attcaaacaa aaaattcact ctaccattg catgtgtggg
1261 gccacatat aaatccatga aggatttcaa tgtccatcca agtcaatgat tcaacatata
1321 taacattgaa taatttaatt ccaatttgca gtattatgat ttagattgat tgctgcaata
1381 cggtcctgta atgtgatcac tcacgagaaa gaggtatcaa aatttcaagg tattttattt
1441 atttttaaca aataaaattt caaggtottg ttcaaccata aaacctcctc actcacaccc
1501 aattctctta agtgtatgac ttcatagtag actacactac tttctttgaa acatg
```

FIG. 3

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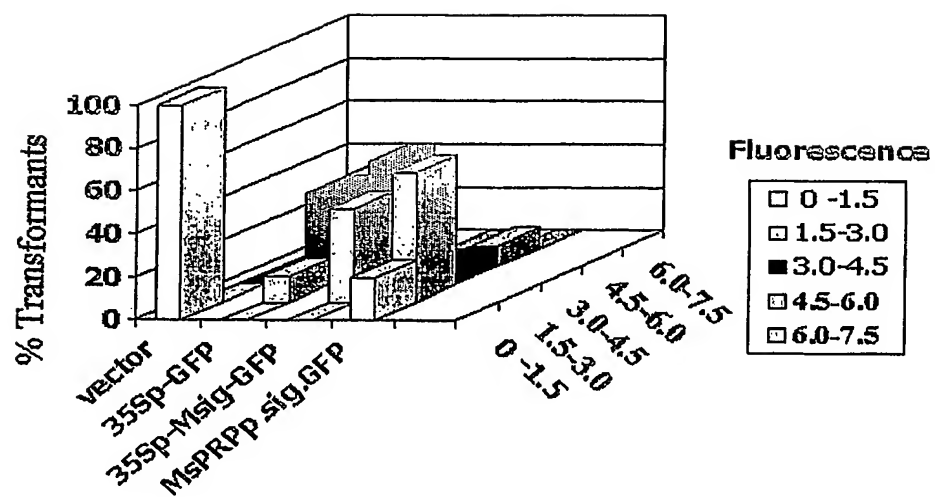
1 GCTCTAGAGG ATGCATGATT CGATTACAAA AACAAAATAC TAATAATTCT  
CGAGATCTCC TACGTACTAA GCTAATGTTT TTGTTTTATG ATTATTAAGA  
51 AGCACAAAGT TTAAAGCAAG ATTATAAAGC TTCATAGCAT GTGGATATTC  
TCGTGTTTCA AATTTTCGTTT TAATATTTCG AAGTATCGTA CACCTATAAG  
101 ATTTAGAAAT ATAGATTAGA TTGCCCTTT CATCACGGGT CTAACAGCAC  
TAAATCTTTA TATCTAATCT AACGGGGAAA GTAGTGCCCA GATTGTCGTG  
151 CACTTGTAC TACATGTCAA AAATGTCCTC TAGTACAGCA CCGCTTTTAA  
GTGAACAGTG ATGTACAGTT TTTACAGGAG ATCATGTCGT GGCGAAAAAT  
201 CTTGATTTCC CTTGTCCATG CATGAAAAAA ATCAAACAA TATTTGGACA  
GAACTAAGGG GAACAGGTAC GTACTTTTTT TAGTTTGTG ATAAACCTGT  
251 CACAAACTTG CCCCACCTT CTTTTTCTT TCTGCCCTAG TTTGTTTGAG  
GTGTTTGAAC GGGGGTGAAA GGAAAAAGAA AGACGGGATC AAACAACTC  
301 ACTCATATTG ATCAAATTTG GCTATGAATT CAAACAAAA ATTCACCTCA  
TAGTATAAAC TAGTTTAAAC CGATACTTAA GTTTGTTTT TAAGTGAGAT  
351 CCCATTGCAT GTGTGGGGCC CACATATAAA TCCATGAAGG ATTTCAATGT  
GGGTAAACGTA CACACCCCGG GTGTATATTT AGGTACTTCC TAAAGTTACA  
401 CCATCCAAGT CAATGATTCA ACATATATAA CATTGAATAA TTTAATTCCA  
GGTAGGTTCA GTTACTAAGT TGTATATATT GTAACCTATT AAATTAAGGT  
451 ATTTGCAGTA TTATGATTTA GATTGATTGC TGCAATACGG TCCGTGAATG  
TAAACGTCAT AATACTAAAT CTAACTAACG ACGTTATGCC AGGCACCTAC  
501 TGATCACTCA CGAGAAAGAG GTATCAAAAT TTCAAGGTAT TTTATTTATT  
ACTAGTGAGT GCTCTTCTC CATAGTTTTA AAGTTCCATA AAATAAATAA  
551 TTTAACAAT AAAATTTCAA GGTCTTGTTT ACCATATAAA CCTCCTCACT  
AAATTGTTTA TTTTAAAGTT CCAGAACAG TGGTATATTT GGAGGAGTGA  
601 CACACCCAAT TCTCTAAGT GTATGACTTC ATAGTACACT ACACACTTTT  
GTGTGGGTTA AGAGAATTCA CATACTGAAG TATCATGTGA TGTGATGAAA  
MetAlaAsnTyrAlaLeuAlaAsnValPheIleLeuLeuLeu  
651 CTTTGAAACA TGGCTAACTA TGCTCTAGCC AATGTTTTCA TCCTTCTCTT  
GAAACTTTGT ACCGATTGAT ACGAGATCGG TTACAAAAGT AGGAAGAGAA  
XmaI  
~~~~~

701 ·AsnLeuSerThrLeuLeuIleValLeuAlaCysProGlySerLysGlyGlu·  
GAACTTGAGT ACCTTACTCA TTGTTCTTGC TTGCCCCGGG AGTAAAGGAG  
CTTGAACCTA TGGAAATGAGT AACAGAACG AACGGGCCCC TCATTTCCTC  
751 ·GluLeuPheThrGlyValValProIleLeuAlaGluLeuAspGlyAsp·  
AAGAACTTTT CACTGGAGTT GTCCCAATTC TTGTTGAATT AGATGGTGAT  
TTCTTGAAAA GTGACCTCAA CAGGGTTAAG AACAACTTAA TCTACCACTA  
ValAsnGlyHisLysPheSerValSerGly GluGlyGluGly AspAlaThr·  
801 GTTAATGGGC ACAAAATTTT TGTCAGTGGA GAGGGTGAAG GTGATGCAAC  
CAATTACCGG TGTAAAAG ACAGTCACCT CTCCCACTTC CACTACGTTG  
·TyrGlyLysLeuThrLeuLysPheIleCysThrThrGly LysLeuProVal·  
851 ATACGGAAAA CTTACCCCTA AATTTATTG CACTACTGGA AACTACCTG  
TATGCCTTT GAATGGGAAT TTAAATAAAC GTGATGACCT TTTGATGGAC  
ValProTrpProThrLeuValThrThrPheSer TyrGlyVal GlnCysPhe  
901 TTCCATGGCC AACACTTGTC ACTACTTTCT CTTATGGTGT TCAATGCTTT  
AAGGTACCGG TTGTGAACAG TGATGAAAGA GAATACCACA AGTTACGAAA  
SerArgTyrProAspHisMetLysArgHis AspPhePheLys SerAlaMet·  
951 TCAAGATACC CAGATCATAT GAAGCGGCAC GACTTCTTCA AGAGCGCCAT  
AGTTCTATGG GTCTAGTATA CTTGCCCGTG CTGAAGAAGT TCTCGCGGTA  
ProGluGlyTyrValGlnGluArgThrIle PhePheLys AspAspGlyAsn·  
1001 GCCTGAGGGA TACGTGCAGG AGAGGACCAT CTTCTTCAAG GACGACGGGA  
CGGACTCCCT ATGCACGTCC TCTCTGGTA GAAGAAGTTC CTGCTGCCCT  
·ATyrLysThr ArgAlaGluValLysPheGlu GlyAspThr LeuValAsn  
1051 ACTACAGAC ACGTGCAGG GTCAAGTTG AGGGAGACAC CCTCGTCAAC  
TGATGTTCTG TGCACGACTT CAGTTCAAAC TCCCTCTGTG GGAGCAGTTG  
ArgIleGluLeuLysGlyIleAspPheLys GluAspGlyAsn IleLeuGly·  
1101 AGGATCGAGC TTAAGGGAAT CGATTTCAAG GAGGACGGAA ACATCCTCGG  
TCCTAGCTCG AATTCCTTA GCTAAAGTTC CTCCTGCCTT TGTAGGAGCC  
·HisLysLeu GluTyrAsnTyrAsnSerHisAsnValTyr IleMetAlaAsp·  
1151 CCACAGTTG GAATACAAC ACAACTCCCA CAACGTATAC ATCATGGCAG  
GGTGTCAAC CTTATGTTGA TGTGAGGGT GTTGCCATAG TAGTACCGTC  
ALysGlnLysAsnGlyIleLysValAsnPheLysIleArg HisAsnIle  
1201 ACAACAAAA GAATGGAATC AAAGTTAACT TCAAAATTAG ACACAACATT  
TGTTTGTTTT CTTACCTTAG TTTCAATTGA AGTTTTAATC TGTGTTGTAA  
GluAspGlySerValGlnLeuAlaAspHis TyrGlnGlnAsn ThrProIle·

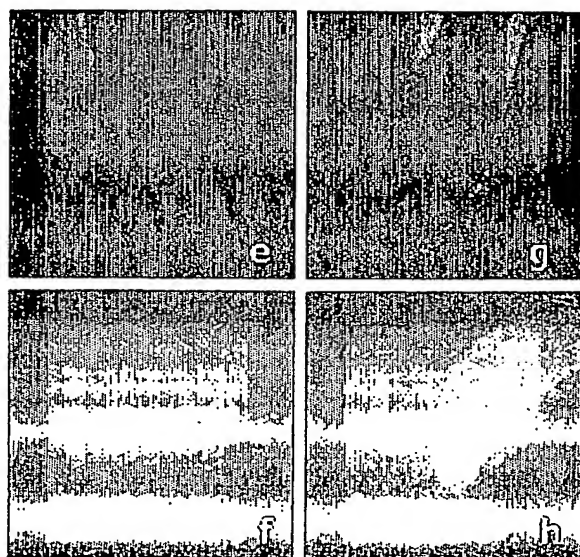
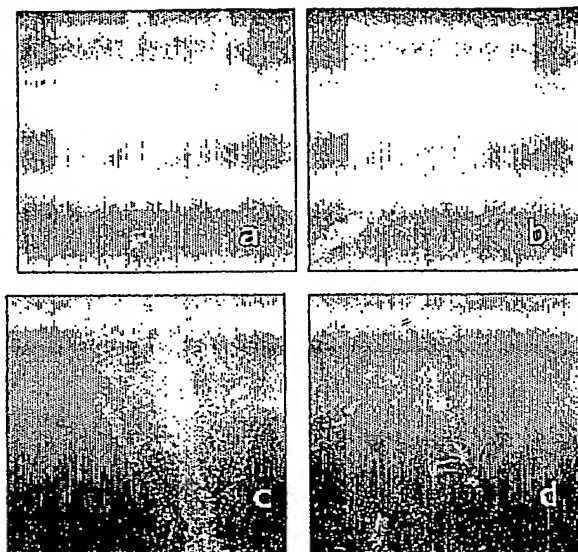
## FIG. 3 continued

```
1251   GAAGATGGAA GCGTTCAACT AGCAGACCAT TATCAACAAA ATACTCCAAT
      CTTCTACCTT CGCAAGTTGA TCGTCTGGTA ATAGTTGTTT TATGAGGTTA
      ·GlyAspGly ProValLeuLeuProAspAsnHisTyrLeu SerThrGlnSer·
1301   TGGCGATGGC CCTGTCCTTT TACCAGACAA CCATTACCTG TCCACACAAT
      ACCGCTACCG GGACAGGAAA ATGGTCTGTT GGTAATGGAC AGGTGTGTTA
      ·SAlaLeuSer LysAspPro AsnGluLysArg AspHisMet ValLeuLeu
1351   CTGCCCTTTC GAAAGATCCC AACGAAAAGA GAGACCACAT GGTCTTCTT
      GACGGGAAAG CTTTCTAGGG TTGCTTTTCT CTCTGGTGTA CCAGGAAGAA
      GluPheValThr AlaAlaGlyIleThrHis GlyMetAspGlu LeuTyrLys·
1401   GAGTTTGTA CAGCTGCTGG GATTACACAT GGCATGGATG AACTATACAA
      CTCAAACATT GTCGACGACC CTAATGTGTA CCGTACCTAC TTGATATGTT
      ·Lys      BglII
      ~~~~~~
1451   ATAAGAGCTC AGATCTCC
      TATTCTCGAG TCTAGAGG
```

FIG. 4

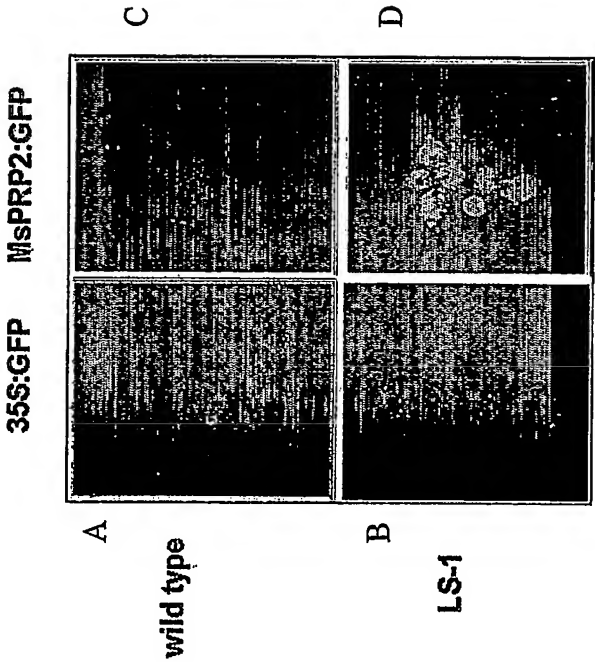


FIGs. 5A-5H



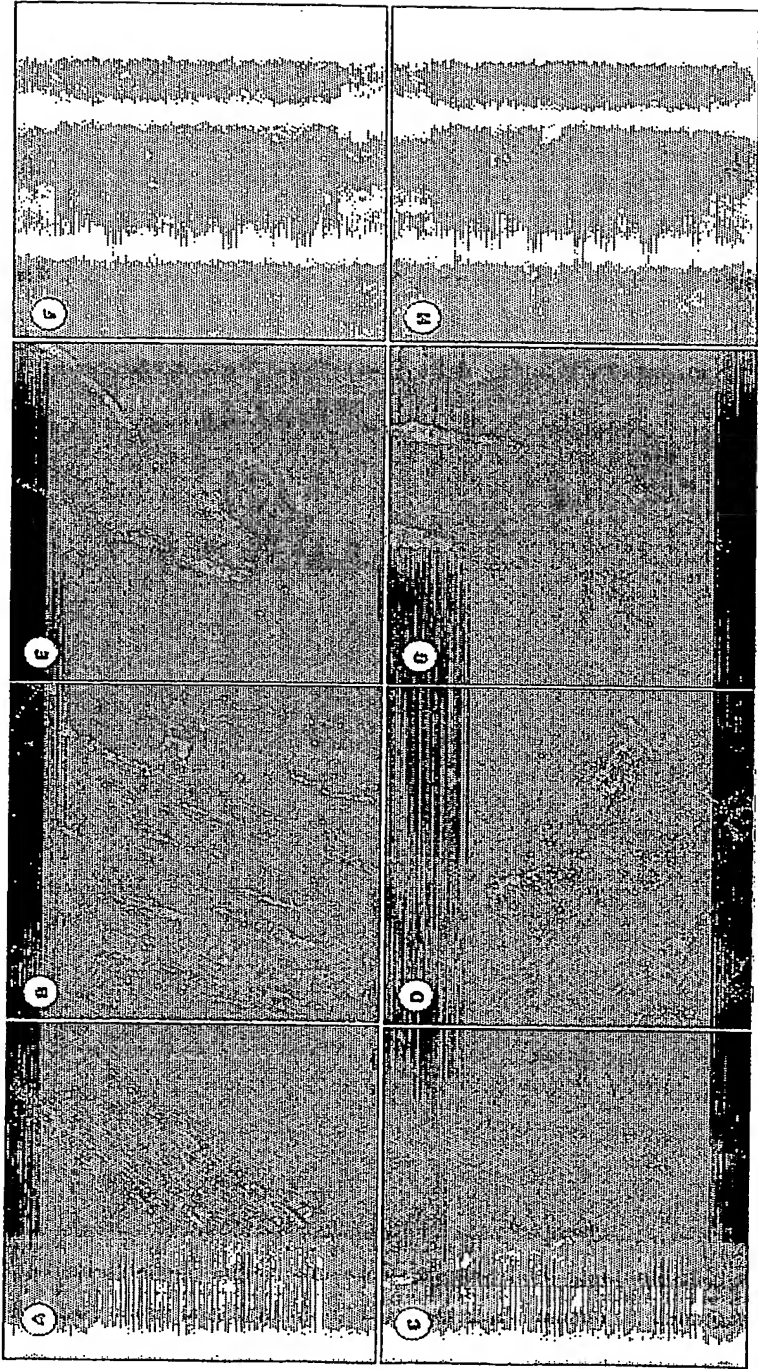
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FIGs. 6A-6D



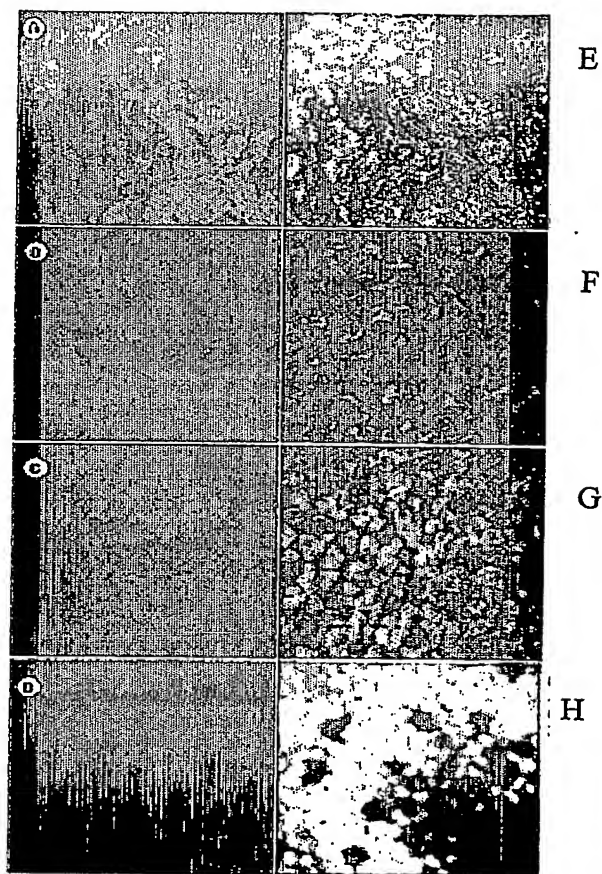
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FIGs. 7A-7H





FIGs. 8A-8H



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